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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/626,675	07/25/2003	Hidemasa Kai	030901	1831
38834 7560 ODDONESTERMAN, LLP 1250 CONNECTICUT AVENUE, NW			EXAMINER	
			KACKAR, RAM N	
SUITE 700 WASHINGTO	N. DC 20036		ART UNIT	PAPER NUMBER
	. ,		1792	
			MAIL DATE	DELIVERY MODE
			01/26/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/626.675 KAI, HIDEMASA Office Action Summary Examiner Art Unit Ram N. Kackar 1792 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 10 November 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 13-20 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 13-20 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SZ/UE)
Paper No(s)/Mail Date ______.

Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application.

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

 A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/30/2008 has been entered.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 13-20 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

In this case the limitation "wherein a middle point of the outer end of the groove is located forward to a middle point of the inner end of the groove with respect to a rotating direction of the susceptor" in claim 13 and;

limitation "wherein a middle point of the outer end of the first groove is located forward to a middle point of the inner end of the first groove with respect to a rotating direction of the Application/Control Number: 10/626,675

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susceptor, and wherein a middle point of the outer end of the second groove is located backward to a middle point of the inner end of the second groove with respect to a rotating direction of the susceptor" in claim 17 is a new matter.

Further, the limitation "wherein a wafer-pocket-side of the first aperture is inwardly defined when viewed from the rear-surface-side opening of the first aperture" in claim 15 and 19 is a new matter.

Still further, the limitation "wherein cross-sectional shape of the second groove narrows from the outer end to the inner end of the second groove" in claims 16 and 20 is a new matter.

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 13-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In this instance the limitation "wherein a middle point of the outer end of the groove is located forward to a middle point of the inner end of the groove with respect to a rotating direction of the susceptor" in claim 13 and;

limitation "wherein a middle point of the outer end of the first groove is located forward to a middle point of the inner end of the first groove with respect to a rotating direction of the susceptor, and wherein a middle point of the outer end of the second groove is located backward to a middle point of the inner end of the second groove with respect to a rotating direction of the susceptor" in claim 17 is indefinite.

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The indefinitness is due to comparing a structure to direction of rotation which could change.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- Claims 13-20 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Goodman et al (US 6454865).

Goodman et al disclose a rotatable (Col 3 lines 13-17) susceptor with a pocket to hold a substrate and gas inlets into the pocket and out lets from the pocket-there are three channels and any of them could be used as supply channel or as discharge channel from the recess (Fig 35,). Further, the gas inlet/outlet comprises apertures through the rear of susceptor to the pocket (See Fig 16 and Col 25 lines 9-42).

Regarding the limitation of the groove having curved shape the groove to hold the arms could be several curved shapes as disclosed in Fig 8, Fig 21-62, Fig 22 and Fig 32. The groove as in Fig 16 is formed from the peripheral end of the susceptor to the gas inlet/outlet (aperture)

Regarding the shape of the groove, it was held in *re Dailey*, 357 F.2d 669, 149 USPQ 47 (CCPA 1966) that the shape was a matter of choice which a person of ordinary skill in the art would have found obvious absent persuasive evidence that the particular shape was significant.

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(Also see MPEP 2144.04(d)). In this instance according to the specification there are several shapes of grooves which are equivalent to each other. Therefore the shape of the groove disclosed by Goodman et al is equivalent and therefore claimed shape is a mere obvious variation.

Response to Arguments

Applicant's arguments filed 9/30/2008 have been fully considered but they are not persuasive.

Applicant argues that Goodman et al do not describe a susceptor having a gas supply channel groove that is located on the side surface of a susceptor plate.

In response it is noted that according to Goodman (Col 25 lines 40-42) the recess of Fig 16 could be provided with Fig 35-Fig 37. The groove in Fig 16 is located on the side surface.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ram N. Kackar whose telephone number is 571 272 1436. The examiner can normally be reached on M-F 8:00 A.M to 5:P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on 571 272 1435. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ram N Kackar/ Primary Examiner, Art Unit 1792